

**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

|   |   |           |
|---|---|-----------|
| In re application of George H. Thiel              | ) | Examiner: |
|   | ) |           |
| Serial No.: To be assigned                        | ) | Art Unit: |
|   | ) |           |
| Filed: Herewith                                   | ) |           |
|   | ) |           |
| For: <b>METHOD AND STRUCTURE FOR SELF HEALING</b> | ) |           |
| <b>CRACKS IN UNDERFILL MATERIAL BETWEEN</b>       | ) |           |
| <b>AN I/C CHP AND A SUBSTRATE BONDED</b>          | ) |           |
| <b>TOGETHER WITH SOLDER BALLS</b>                 | ) |           |

Docket No. END920030022US1 (IEN-10-5752)

**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

This Information Disclosure Statement is being filed to fulfill the duty of candor and good faith toward the Patent and Trademark Office, as required pursuant to 37 C.F.R. § 1.56.

Listed on the attached PTO form 1449 is information known to persons substantively involved in the preparation of the application identified above, and that a reasonable Examiner would consider important when deciding whether to allow the application. This document is not to be construed as a representation that a search to locate the most relevant information has been made, nor a representation that more pertinent information does not exist.

Copies of the information listed on the attached PTO Form 1449 are provided herewith.

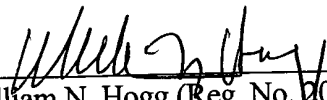
END920030022US1 (IEN-10-5752)

The identification of any information herein is not intended to be, and should not be understood as being, an admission that such information, in fact, constitutes "prior art" within the meaning of applicable law. The "prior art" status of any information is a matter to be resolved during prosecution.

This Information Disclosure Statement is being filed the application. Accordingly, it is not believed that any fee is required relating to the filing of this Information Disclosure Statement. If this is not the case, the Patent Office is hereby authorized to charge any related fee to Deposit Account No. 09-0457.

Respectfully submitted,

Date: 9/23/03

By:   
William N. Hogg (Reg. No. 20,156)  
Driggs, Lucas, Brubaker & Hogg Co., L.P.A.  
8522 East Avenue  
Mentor, Ohio 44060  
(440) 205-3600  
Fax: 440-205-3601

WNH:kek  
enclosures

|   |   |                            |
|---|---|----------------------------|
| Subst. Form PTO-1449<br><br>APPLICANT'S INFORMATION<br>DISCLOSURE STATEMENT | Atty. Docket No.: END920030022US1 (IEN-10-5752) | Serial No.: To be assigned |
|   | Applicant: George H. Thiel                      |                            |
|   | Filing Date: Herewith                           | Group: To be assigned      |

## U.S. PATENT DOCUMENTS

| Initial* |    | Document No. | Date       | Name           | Class | Subcl. | Filing Date |
|----------|----|--------------|------------|----------------|-------|--------|-------------|
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|          | AG |              |            |                |       |        |             |
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|          | AK |              |            |                |       |        |             |

## FOREIGN PATENT DOCUMENTS

|  |    | Document No. | Date | Country | Class | Subcl. | Translation? |
|--|----|--------------|------|---------|-------|--------|--------------|
|  | AL |              |      |         |       |        |              |
|  | AM |              |      |         |       |        |              |
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## OTHER DOCUMENTS

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|  | AO | "Autonomic healing of polymer composites", letters to nature, Nature 409, 794-797 (2001), 15 February 2001  |  |  |  |  |  |
|  | AP | "In situ (urea-formaldehyde) microencapsulation of dicyclopentadiene", E.N. Brown et al, Journal of Microencapsulation (1998) pgs. 1-14 plus List of Recent TAM Reports |  |  |  |  |  |
|  | AQ |   |  |  |  |  |  |
|  | AR |   |  |  |  |  |  |
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|  | AT |   |  |  |  |  |  |

Examiner:

Date Considered:

\*EXAMINER: Initial if reference considered, whether or not citation is in conformation with MPEP 609; draw line through citation if in conformance and not considered.  
Include copy of this form with next communication to applicant.